

Product datasheet for **RC228278**

CASS4 (NM_001164115) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	CASS4
Synonyms:	C20orf32; CAS4; HEFL; HEPL
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC228278 representing NM_001164115
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGGAACAGGCATCATGGACTGTGCCCAAGGCACTCTGGCCAGGGCACTTTATGACAACCTGCC
CTGACTGCTCTGACGAGCTGGCTTTTCAGCAGAGGGGACATCCTGACCATTCTGGAGCAACACGTGCCAGA
AAGCGAGGGTTGGTGAAGTGTTCCTCATGGAGGCAAGGCCTGGCCCTGCCAACCGCCTCCAAATC
CTCACGGAGGTCGCTGCAGACAGGCCGTGCCCCCATTCCTGAGAGGCCTGGAAGAAGCTCCTGCCAGCT
CAGAGGAGACCTATCAGGTGCCCACTCTACCCCGCCCTCCCACTCCAGGCCCGTTTATGAGCAGATGAG
GAGTTGGGCGGAGGGGCCAGCCCCCTACTGCCCAAGTCTATGAATTCCCGACCCCTCCACCAAGTGCC
AGAATCATCTGTGAAAAGACTCTCAGCTTTCCAAAACAGGCCATCCTCACGCTTCCAGACCTGTCCGGG
CCTCACTGCCGACTCTGCCTTCCAGGTGTATGACGTGCCTACCCAGCACCGGGGCCCGTGGTCTGAA
GGAGCCAGAGAAGCAGCAGTTATATGACATACCAAGCCAGCCCAAGAAGGCAGGACTCCATCCCCAGAC
AGCCAAGCAAGTAATCCTGGCCCTCTTATACCTCAGCCTTCGAGTCAACAGACTCCTGAGAGGAAACCCC
GCTTATCTGAACACTGCCGGCTCTACTTTGGGGCGCTCTTCAAAGCCATCAGCGCATTTACGGCAGCCT
CAGCAGCAGCCAGCCCGGAGATCATCACTCAGAGCAAGCTGGTATCATGGTGGGACAGAAGCTGGTG
GACACGCTGTGCATGGAGACCCAGGAGAGGGACGTGCGCAACGAGATCCTCCGTGGCAGCAGTCACTCT
GCAGCCTGCTCAAGGACGTAGCGCTGGCCACTAAGAATGCCGTGCTCACGTACCCAGCCCTGCCGCGCT
GGGGCACCTCCAGGCGGAGGCTGAGAAGCTGGAGCAACACACGCGGCAGTTCAGAGGGACACTGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



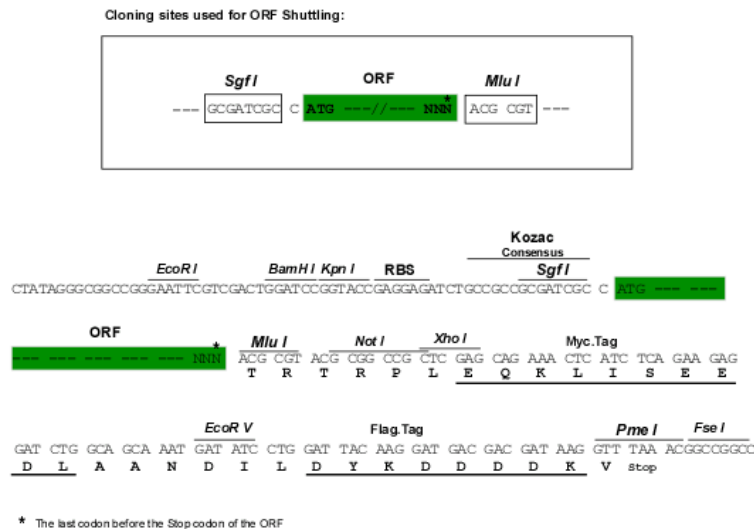
Protein Sequence: >RC228278 representing NM_001164115
Red=Cloning site Green=Tags(s)

MKGTGIMDCAPKALLARALYDNCPCDSELAFSRGDILTILEQHVPESEGWWKCLLHGRQGLAPANRLQI
LTEVAADRPCPPFLRGLLEAPASSEETYQVPTLPRPPTPGPVYEQMRSWAEGQPPTAQVVEFPDPPTSA
RIICEKTLSPKQAILTLPRPVRASLPTLPSQVYDVPTQHRGPVVLKEPEKQQLYDIPASPKKAGLHPPD
SQASNPGLIPQPSSQQTPERKPRLEHCRLYFGALFKAISAFHGLSSSQPAEITQSKLVIMVGKLV
DTLCMETQERDVRNEILRGSSHLCSLLKDYALATKNAVLTYPSPAALGHLQAEAEKLEQHTRQFRGTLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164115

ORF Size: 1047 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001164115.2](#)

RefSeq ORF: 1050 bp

Locus ID: 57091

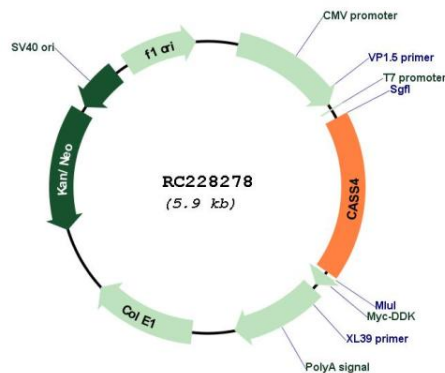
UniProt ID: [Q9NQ75](#)

Cytogenetics: 20q13.31

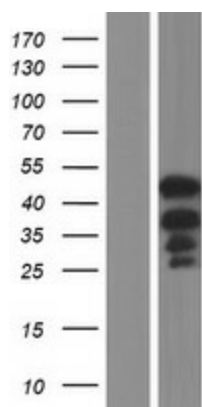
MW: 38.2 kDa

Gene Summary: Docking protein that plays a role in tyrosine kinase-based signaling related to cell adhesion and cell spreading. Regulates PTK2/FAK1 activity, focal adhesion integrity, and cell spreading. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC228278



Western blot validation of overexpression lysate (Cat# [LY431306]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC228278 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).